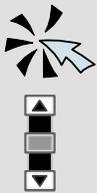


### III. Gather Data

#### A. Atlantic Cod Commercial Landings (fish catch)

- Click on the "Commercial Landings" site.
- Scroll down to the "Species" box on the left side of the page.
- Delete the text in the box, then type "COD,ATLANTIC" in the box.
- Scroll down to the "Year Range" boxes.
- Click on the "From" box and select 1990.
- Leave the listed date in the "To" box.
- Scroll down to the "Time Frame" box.
- Click on the "Time Frame" box and select "ANNUAL."
- Scroll down and click "Submit Query."





1. What is the relationship between the number of fish caught in a year and the number caught the year before?

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2. How would you explain this relationship?

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- Click "Back" twice to return to the Fisheries "Gather Data.1" web page.
- Click "Forward" at the bottom of the page.

### **B. Red Drum Commercial Landings (fish catch)**



- Click on the "Annual Commercial Landings" site.
- Scroll down to the "Species" box.
- Replace the text in the box with "DRUM,RED."
- Scroll down to the "Year Range" box
- Click on the "From" box and select 1981.
- Scroll down and click "Submit Query."



1. What is the trend in the number of fish caught each year?

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2. Hypothesize why the catch might be so low after 1987.

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- Click "Back" twice to return to the Fisheries "Gather Data.2" web page.
- Click "Forward" at the bottom of the page.



### C. Commercial Regulations

- Click on the "Commercial Regulations" site.
- Read about "Spanish Mackerel" and answer the following questions.

1. Is a permit required to catch Spanish Mackerel? \_\_\_\_\_

2. What is the minimum size Spanish Mackerel you can keep?

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3. What laws apply to "gill net" fishing for Mackerel?

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4. What time of year can you fish for Spanish Mackerel?

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5. How much Spanish Mackerel can you catch in a year?



- Click "Back" to return to the Fisheries "Gather Data.2" web page.
- Click "Forward" at the bottom of the page.
- Click on the "Other Regulations" site.
- Scroll down to the "Big Changes for Mackerel" section.



6. What business must you have already been in to qualify for a commercial Mackerel permit?

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- Click "Back" to return to the Fisheries "Gather Data.3" web page.

#### **D. Recreational Red Snapper Landings**



- Click on the "Red Snapper" site.
- Scroll to the "Year Range" section.
- Click the "From" box, then select 1981.
- Scroll to the "State/Area" box and select "LOUISIANA."
- Scroll to the "Species" box.
- Click the "Species" box and select "RED SNAPPER."
- Scroll to the "Fishing Area" box and select "STATE WATERS."
- Scroll down the page and click "Submit Query."
- Scroll down to the bottom of the page that appears and again click "Submit the Query."





1. After a few years of catching large amounts of fish, what happens to the number of fish caught per year?

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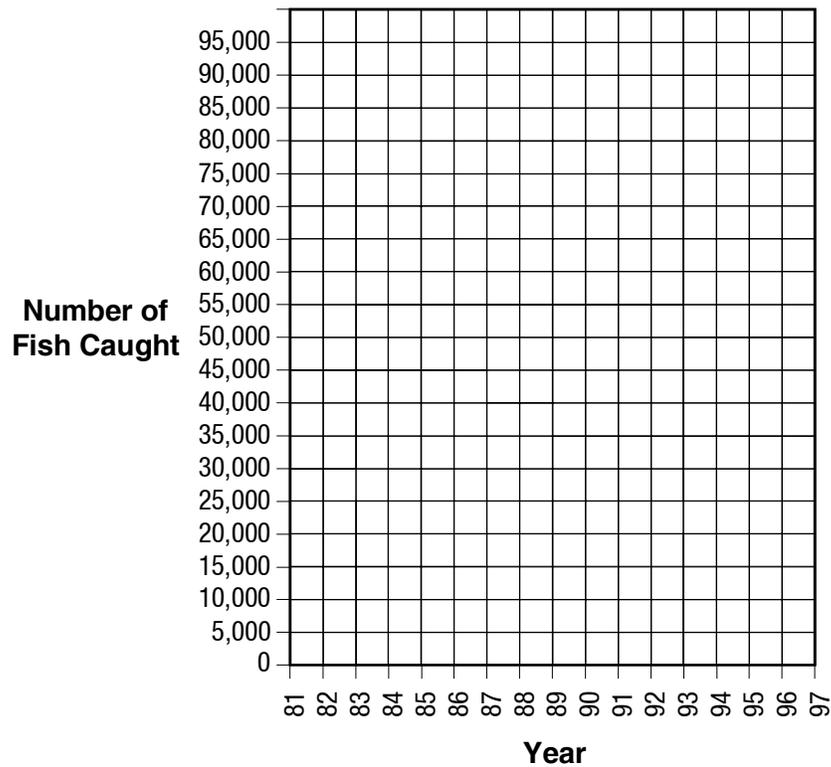


### E. Graph the Recreational Red Snapper Catch



1. Graph the catch of RED SNAPPER in the STATE WATERS of LOUISIANA from 1981 to 1997.

- Plot the points of numbers of fish caught each year, and then draw a line connecting the points.





- Click "Back" to return to the NOAA Research "Fisheries" main page, or choose "Fisheries" from your Bookmarks or Favorites.
- Click "Application."